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**Self contained liq. assay device for e.g. nucleic acid sequence - using pair of relatively movable plates one carrying reaction well and other reaction reagent reservoirs**

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WO 1991019567 A 19911226 WO 1991US4207 A 19910613 199203 B

AU 199180505 A 19920107 199217 E

EP 533801 A1 19930331 EP 1991911636 A 19910613 199313 E

WO 1991US4207 A 19910613

TW 197495 A 19930101 TW 1991105430 A 19910712 199324 E

PT 98009 A 19930831 PT 98009 A 19910617 199338 E

**JP 5507878 W 19931111 JP 1991511515 A 19910613 199350 E**

WO 1991US4207 A 19910613

EP 533801 B1 19940810 EP 1991911636 A 19910613 199431 E

WO 1991US4207 A 19910613

DE 69103420 E 19940915 DE 69103420 A 19910613 199436 E

EP 1991911636 A 19910613

WO 1991US4207 A 19910613

ES 2057904 T3 19941016 EP 1991911636 A 19910613 199442 E

IE 65253 B 19951018 IE 19912049 A 19910614 199603 E

KR 182619 B1 19990501 KR 1992703240 A 19921215 200052 E

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**Alerting Abstract WO A**

Reaction plate (24) contains a solid support and a well (66) for holding liquid reagents in contact with the support. A transfer plate (28) contains at least first and second reagent required for binding of ligand in detectable form to the solid support. The transfer plate (28) is mounted on the reaction plate (24) for movement thereon to a sample addition position, at which the first reservoir is aligned with the well, a first reagent transfer position, at which the second reservoir is aligned with the well. Release of the reagents from their respective wells is prevented until the associated reservoir is aligned with the well.

USE/ADVANTAGE - Assaying an analyte in a liquid sample e.g. for detecting a nucleic acid with a known target sequence. Allows a multiple solid phase reaction to be carried out in a single chamber which minimises variations in quantitative analyte measurements due to variations in reaction conditions, allowing self corrected analyte determinations based on a standard curve with background subtraction. @(47pp Dwg.No.2/14)